ABSTRACT OF THE DISCLOSURE

A commutating image-reject mixer includes first and second branches, each having first and second stage mixers for converting the frequency of a desired channel to an intermediate frequency (IF) and rejecting the image channel. The local oscillator (LO) ports of all the mixers are commutated between quadrature and in-phase LO signals, and the output of the branches are commutated between each other, by two complementary, 50% duty cycle clock signals. The commutating image-reject mixer exhibits improved immunity to amplitude and phase mismatches that may be present in each branch.